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Category,	Category	Priority	Referral
Priority and Referral	INFANTS	4	-

Definition

Routine use of feeding practices that may result in impaired nutrient status, disease, or health problems. These practices, with examples, are outlined below. Refer to "Justification and References" for this criterion.

411.1 Routinely using a substitute(s) for breast milk or for FDA approved iron-fortified formula as the primary nutrient source during the first year of life.

Examples of substitutes:

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- Low iron formula without iron supplementation;
- Cow's milk, goat's milk, or sheep's milk (whole, reduced fat, low-fat, skim), canned evaporated or sweetened condensed milk;
- Imitation or substitute milks (such as rice- or soy-based beverages, non-dairy creamer), or other "homemade concoctions."

411.2 Routinely using nursing bottles or cups improperly.

- Using a bottle to feed fruit juice.
- Feeding any sugar-containing fluids, such as soda/soft drinks, gelatin water, corn syrup solutions, sweetened tea.
- Allowing the infant to fall asleep or be put to bed with a bottle at naps or bedtime.
- Allowing the infant to use the bottle without restriction (e.g., walking around with a bottle) or as a pacifier.
- Propping the bottle when feeding.
- Allowing an infant to carry around and drink throughout the day from a covered or training cup.
- Adding any food (cereal or other solid foods) to the infant's bottle.

411.3 Routinely offering complementary foods* or other substances that are inappropriate in type or timing.

- Examples of inappropriate complementary foods:
- Adding sweet agents such as sugar, honey, or syrups to any beverage (including water) or prepared food, or used on a pacifier.
- Introducing any food other than breast milk or iron-fortified infant formula before 4 months of age.

411.4 Routinely using feeding practices that disregard the developmental needs or stage of the infant.

- Inability to recognize, insensitivity to, or disregarding the infant's cues for hunger and satiety (e.g., forcing an infant to eat a certain type and/or amount of food or beverage or ignoring an infant's hunger cues)
- Feeding foods of inappropriate consistency, size, or shape that put infants at risk of choking.
- Not supporting an infant's need for growing independence with self-feeding (e.g., solely spoon-feeding an infant who is able and ready to finger-feed and/or try self-feeding with appropriate utensils)
- Feeding an infant foods with inappropriate textures based on his/her developmental stage (e.g., feeding primarily pureed or liquid foods when the

^{*}Complementary foods are any foods or beverages other than breast milk or infant formula.

infant is ready and capable of eating mashed, chopped or appropriate finger foods)

411.5 Feeding foods to an infant that could be contaminated with harmful microorganisms or toxins.

Examples of potentially harmful foods

- Unpasteurized fruit or vegetable juice;
- Unpasteurized dairy products or soft cheeses such as feta, Brie, Camembert, blue-veined, and Mexican-style cheese;
- Honey (added to liquids or solid foods, used in cooking, as part of processed foods, on a pacifier, etc.);
- Raw or undercooked meat, fish, poultry, or eggs;
- Raw vegetable sprouts (alfalfa, clover, bean, and radish);
- Deli meats, hot dogs, and processed meats (avoid unless heated until steaming hot).

411.6 Routinely feeding inappropriately diluted formula.

- Failure to follow manufacturer's dilution instructions (to include stretching formula for household economic reasons).
- Failure to follow specific instructions accompanying a prescription.

411.7 Routinely limiting the frequency of nursing of the exclusively breastfed infant when breast milk is the sole source of nutrients.

Examples of inappropriate frequency of nursing:

- Scheduled feedings instead of demand feedings:
- Less than 8 feedings in 24 hours if less than 2 months of age.

411.8 Routinely feeding a diet very low in calories and/or essential nutrients.

Examples:

- Strict vegan diet;
- Macrobiotic diet;
- Other diets very low in calories and/or essential nutrients.

411.9 Routinely using inappropriate sanitation in preparation, handling, and storage of expressed breast milk or formula.

Limited or no access to a:

- Safe water supply (documented by appropriate officials e.g., municipal or health department authorities);
- Heat source for sterilization; and/or
- Refrigerator or freezer for storage.

Failure to properly prepare, handle, and store bottles or storage containers or breast pumps properly; examples include:

Breast Milk

- Thawing/heating in a microwave
- Refreezing
- Adding freshly expressed unrefrigerated breast milk to frozen breast milk
- Adding freshly pumped chilled breast milk to frozen breast milk in an amount that is greater than the amount of frozen breast milk
- Feeding thawed refrigerated breast milk more than 24 hours after it was thawed
- Saving breast milk from a used bottled for another feeding
- Failure to clean breast pump per manufacturer's instruction

Formula

- Storing at room temperature for more than 1 hour

- Failure to prepare and/or store formula per manufacturer's or physician instructions
- Using formula in a bottle one hour after the start of a feeding
- Saving formula from a used bottle for another feeding
- Failure to clean baby bottle properly

411.10 Feeding dietary supplements with potentially harmful consequences.

Examples of dietary supplements, which when fed in excess of recommended dosage, may be toxic or have harmful consequences:

- Single or multi-vitamins;
- Mineral supplements;
- Herbal or botanical supplements/remedies/teas.

411.11 Routinely not providing dietary supplements recognized as essential by national public health policy when an infant's diet alone cannot meet nutrient requirements.

- Infants who are 6 months of age or older who are ingesting less than 0.25 mg of fluoride daily when the water supply contains less than 0.3 ppm fluoride
- Infants who are exclusively breastfed, or who are ingesting less than 1 liter (or 1 quart) per day of vitamin D-fortified formula, and are not taking a supplement of 400 IU of vitamin D

Required Documentation

Document which behaviors are present.

Justification

411.1 Routinely using a substitute(s) for breast milk or for FDA approved iron-fortified formula as the primary nutrient source during the first year of life.

During the first year of life, breastfeeding is the preferred method of infant feeding. The American Academy of Pediatrics (AAP) recommends breast milk for the first 12 months of life because of its acknowledged benefits to infant nutrition, gastrointestinal function, host defense, and psychological well-being (1). In addition, the AAP has established exclusive breastfeeding as the standard against which all alternative feeding methods must be measured with regard to growth, health, development, and all other short and long-term outcomes for children (2). For infants fed infant formula, iron-fortified formula is generally recommended as a substitute for breastfeeding (2). Rapid growth and increased physical activity significantly increase the need for iron and utilizes iron stores (1). Body stores are insufficient to meet the increased iron needs making it necessary for the infant to receive a dependable source of iron to prevent iron deficiency anemia (1). Iron deficiency anemia is associated with cognitive and psychomotor impairments that may be irreversible, and with decreased immune function, apathy, short attention span, and irritability (1, 6). Feeding of low-iron infant formula can compromise an infant's iron stores and lead to iron deficiency anemia. Cow's milk has insufficient and inappropriate amounts of nutrients and can cause occult blood loss that can lead to iron deficiency, stress on the kidneys from a high renal solute load, and allergic reactions (1, 4, 6-9). Sweetened condensed milk has an abundance of sugar that displaces other nutrients or causes over consumption of calories (10). Homemade formulas prepared with canned evaporated milk do not contain optimal kinds and amounts of nutrients infants need (1, 6, 9,10). Goat's milk, sheep's milk, imitation milks,

and substitute milks do not contain nutrients in amounts appropriate for infants (1, 4, 6, 11,12).

411.2 Routinely using nursing bottles or cups improperly.

Dental caries is a major health problem in U.S. preschool children, especially in low-income populations (13). Eating and feeding habits that affect tooth decay and are started during infancy may continue into early childhood. Most implicated in this rampant disease process is prolonged use of baby bottles during the day or night, containing fermentable sugars, (e.g., fruit juice, soda, and other sweetened drinks), pacifiers dipped in sweet agents such as sugar, honey or syrups, or other high frequency sugar exposures (14). The AAP and the American Academy of Pedodontics recommended that juice should be offered to infants (≥ 6 months of age) in a cup, not a bottle, and that infants not be put to bed with a bottle in their mouths (15, 16). While sleeping with a bottle in his or her mouth, an infant's swallowing and salivary flow decreases, thus creating a pooling of liquid around the teeth (17). The practice of allowing infants to carry or drink from a bottle or training cup of juice for periods throughout the day leads to excessive exposure of the teeth to fermentable carbohydrates, which promotes the development of dental caries (15).

Allowing infants to sleep with a nursing bottle containing fermentable carbohydrates or to use it unsupervised during waking hours provides an almost constant supply of carbohydrates and sugars (1). This leads to rapid demineralization of tooth enamel and an increase in the risk of dental caries due to prolonged contact between cariogenic bacteria on the susceptible tooth surface and the sugars in the consumed liquid (1, 18). The sugars in the liquid pool around the infant's teeth and gums feed the bacteria there and decay is the result (19). The process may start before the teeth are even fully erupted. Upper incisors (upper front teeth) are particularly vulnerable; the lower incisors are generally protected by the tongue (19). The damage begins as white lesions and progresses to brown or black discoloration typical of caries (19). When early childhood caries is severe, the decayed crowns may break off and the permanent teeth developing below may be damaged (19). Undiagnosed dental caries and other oral pain may contribute to feeding problems and failure to thrive in young children (19).

Unrestricted use of a bottle containing fermentable carbohydrates is a risk because the more times an infant consumes solid or liquid food, the higher the caries risk (1). Feeding behaviors such as unrestricted use of the bottle and frequent snacking can be habit forming in later infancy and may carry over into toddler-hood. Frequent cariogenic snacks eaten between meals place the toddler at high risk for caries development; this includes the habit of continually sipping from cups (or bottles) containing cariogenic liquids (juice, milk, soda, or sweetened liquid) (19). If inappropriate use of the bottle persists, the child is at risk of toothaches, costly dental treatment, loss of primary teeth, and developmental lags on eating and chewing. If this continues beyond the usual weaning period, there is a risk of decay to permanent teeth.

Propping the bottle deprives infants of vital human contact and nurturing which makes them feel secure. It can also cause ear infections because of fluid entering the middle ear and not draining properly; choking from liquid flowing into the lungs; and tooth decay from prolonged exposure to carbohydrate-containing liquids (20).

Adding solid food to a nursing bottle results in force-feeding, inappropriately

increases the energy and nutrient composition of the formula, deprives the infant of experiences important in the development of feeding behavior, and could cause an infant to choke (1, 11, 21, 22).

411.3 Routinely offering complementary foods or other substances that are inappropriate in type of timing.

Infants, especially those living in poverty, are at high risk for developing early childhood carries (13). Most implicated in this disease process are: prolonged use of baby bottles containing fermentable sugars, (e.g., fruit juice, soda, and other sweetened drinks) during the day or night; pacifiers dipped in sweet agents such as sugar, honey or syrups, or other high frequency sugar exposures (14).

The AAP recommends exclusive breastfeeding through 6 months of age (1). Feeding solid foods too early (i.e., before 6 months of age) by, for example, adding dilute cereal or other solid foods to bottles deprives infants of the opportunity to learn to feed themselves (4, 11, 23). The major objection to the introduction of solids before age 6 months of age is based on the possibility that it may interfere with establishing sound eating habits and may contribute to overfeeding (6, 24). In early infancy, the infant possesses an extrusion reflex that enables him/her to swallow only liquid foods (1, 13, 25). The extrusion reflex is normally diminished by 6 months of age (1). Breast milk or iron-fortified infant formula is all the infant needs. Gastric secretions, digestive capacity, renal capacity and enzymatic secretions are low, which makes digestion of solids inefficient and potentially harmful (6, 24, 25). Furthermore, there is the potential for antigens to be developed against solid foods, due to the undigested proteins that may permeate the gut; however, the potential for developing allergic reactions may primarily be in infants with a strong family history of atopy (6, 24). If solid foods are introduced before the infant is developmentally ready, breast milk or iron-fortified formula necessary for optimum growth is displaced (1, 25). Around 6 months of age, the infant is developmentally ready for solid foods when: the infant is better able to express certain feeding cues such as turning head to indicate satiation; oral and gross motor skills begin to develop that help the infant to take solid foods; the extrusion reflex disappears; and the infant begins to sit upright and maintain balance with little or no support (1, 6, 24, 25).

The AAP advises against giving fruit juice to infants younger than 6 months since it offers no nutritional benefit at this age (1). Offering juice before solid foods are introduced into the diet could risk having juice replace breast milk or infant formula in the diet (15). This can result in reduced intake of protein, fat, vitamins, and minerals such as iron, calcium, and zinc (26). It is prudent to give juice only to infants who can drink from a cup (15).

411.4 Routinely using feeding practices that disregard the developmental needs or stage of the infant.

Infants held to rigid feeding schedules are often underfed or overfed. Caregivers insensitive to signs of hunger and satiety, or who over-manage feeding may inappropriately restrict or encourage excessive intake. Findings show that these practices may promote negative or unpleasant associations with eating that may continue into later life, and may also contribute to obesity. Infrequent breastfeeding can result in lactation insufficiency and infant failure-to-thrive. Infants should be fed foods with a texture appropriate to their developmental level. (4, 6, 11, 13, 23)

411.5 Feeding foods to an infant that could be contaminated with harmful

microorganisms or toxins.

Only pasteurized juice is safe for infants, children, and adolescents (15). Pasteurized fruit juices are free of microorganisms (15). Unpasteurized juice may contain pathogens, such as Escherichia coli, Salmonella, and Cryptosporidium organisms (15, 27). These organisms can cause serious disease, such as hemolytic-uremic syndrome, and should never be fed to infants and children (15). Unpasteurized juice must contain a warning on the label that the product may contain harmful bacteria (15, 28). Infants or young children should not eat raw or unpasteurized milk or cheeses (1)—unpasteurized dairy products could contain harmful bacteria, such as Brucella species, that could cause young children to contract a dangerous food borne illness. The AAP also recommends that young children should not eat soft cheeses such as feta, Brie, Camembert, blue-veined, and Mexican-style cheese—these foods could contain Listeria bacteria (1). Hard cheeses, processed cheeses, cream cheese, cottage cheese, and yogurt need not be avoided (1).

Honey has been implicated as the primary food source of *Clostridium botulinum* during infancy. These spores are extremely resistant to heat, including pasteurization, and are not destroyed by present methods of processing honey. Botulism in infancy is caused by ingestion of the spores, which germinate into the toxin in the lumen of the bowel (10, 11, 29, 30).

Infants or young children should not eat raw or undercooked meat or poultry, raw fish or shellfish, including oysters, clams, mussels, and scallops—these foods may contain harmful bacteria or parasites that could cause children to contract a dangerous food borne illness (1).

According to the AAP, to prevent food borne illness, the foods listed below should not be fed to infants or young children (1). All of the foods have been implicated in selected outbreaks of food-borne illness, including in children. Background information regarding foods that could be contaminated with harmful microorganisms is also included below (1):

- Raw vegetable sprouts (alfalfa, clover, bean, and radish) can cause
 potentially dangerous Salmonella and E. coli O157 infection. Sprouts grown
 under clean conditions in the home also present a risk because bacteria may
 be present in seeds. Cook sprouts to significantly reduce the risk of illness
 (31).
- Deli meats, hot dogs, and processed meats (avoid unless heated until steaming hot) --These foods have been found to be contaminated with Listeria monocytogenes; if adequately cooked, this bacteria is destroyed.

411.6 Routinely feeding inappropriately diluted formula.

Over-dilution can result in water intoxication resulting in hyponatremia; irritability; coma; inadequate nutrient intake; failure to thrive; and/or poor growth (1, 4, 6, 11, 32). Under-dilution of formula increases calories, protein, and solutes presented to the kidney for excretion, and can result in hypernatremia, tetany, and obesity (4, 6, 11, 32).

Dehydration and metabolic acidosis can occur with under-dilution of formula (4, 6, 11, 32). Powdered formulas vary in density so manufacturers' scoops are formula-specific to assure correct dilution (6). One clue for staff to identify incorrect formula preparation is to determine if the parent/caregiver is using the correct manufacturer's scoop to prepare the formula.

411.7 Routinely limiting the frequency of nursing of the exclusively breastfed infant when breast milk is the sole source of nutrients.

Exclusive breastfeeding provides ideal nutrition to an infant and is sufficient to support optimal growth and development in the first 6 months of life (5). Human breast colostrum and milk have been studied extensively. They are composed of a mixture of nutritive components and other bioactive factors that are easy to digest and absorb and have strong physiologic effects upon the infant, and their composition changes over time to meet the infant's changing nutritional needs (1).

Frequent breastfeeding is critical to the establishment and maintenance of an adequate milk supply for the infant (5, 33-37). Inadequate frequency of breastfeeding may lead to lactation failure in the mother and dehydration, poor weight gain, diarrhea, and vomiting, illness, and malnourishment in the infant (5, 35, 38-43). Exclusive breastfeeding protects infants from early exposure to contaminated foods and liquids (41). Infants who receive breast milk more than infant formulas, have a lower risk of being overweight in childhood and adolescence (44, 45). In addition, a summary report of several primary studies and meta-analyses has reported that a history of breastfeeding is associated with a reduction in the risk of otitis media, gastroenteritis, hospitalization for lower respiratory tract infections, atopic dermatitis, sudden infant death syndrome, childhood asthma, childhood leukemia, and type 1 and 2 diabetes (46).

411.8 Routinely feeding a diet very low in calories and/or essential nutrients.

Highly restrictive diets prevent adequate intake of nutrients, interfere with growth and development, and may lead to other adverse physiological effects (4). Infants older than 6 months are potentially at the greatest risk for overt deficiency states related to inappropriate restrictions of the diet, although deficiencies of vitamins B12 and essential fatty acids may appear earlier (1, 47, 48). Infants are particularly vulnerable during the weaning period if fed a macrobiotic diet and may experience psychomotor delay in some instances (1, 49, 50). Well-balanced vegetarian diets with dairy products and eggs are generally associated with good health. However, strict vegan diets may be inadequate in calories, vitamin B12, vitamin D, calcium, iron, protein and essential amino acids needed for growth and development (51). The more limited the diet, the greater the health risk. Given the health and nutrition risks associated with highly restrictive diets, WIC can help the parent to assure that the infant consumes an adequate diet to optimize health during critical periods of growth as well as for the long term.

411.9 Routinely using inappropriate sanitation in preparation, handling, and storage of expressed breast milk or formula.

Lack of sanitation in the preparation, handling and storage of expressed breast milk or formula may cause gastrointestinal infection. The water used to prepare concentrated or powdered infant formula and prepare bottles and nipples (for formula and breast milk) must be safe for consumption. Water contaminated with toxic substances (such as nitrates, lead, or pesticides) poses a hazard to an infant's health and should NOT be used (10). In addition, a heat source is necessary to sterilize bottles and other items used in the storage of both breast milk and formula. Adequate refrigeration (40 Degrees Fahrenheit or below) is necessary to safely store breast milk and prepared formula (10).

Breast Milk

Published guidelines on the handling and storage of breast milk may differ among pediatric nutrition authorities (1, 10, 52-55). However, there is consensus on the following breast milk feeding, handling, and storage practices that are considered inappropriate and unsafe (10, 52, 56-58):

- Thawing frozen breast milk in the microwave oven;
- Refreezing breast milk;
- Adding freshly expressed unrefrigerated breast milk to already frozen milk in a storage container*
- Feeding previously frozen breast milk thawed in the refrigerator that has been refrigerated for more than 24 hours
- Saving breast milk from a used bottle for use at a subsequent feeding
- Failure to clean a breast pump per manufacturer's instruction

Another consideration when recommending length of storage time is its effect on protective properties in breast milk. There is evidence that after 48 hours of refrigeration, breast milk significantly loses important antibacterial and antioxidant properties (59). These properties of breast milk are specifically important for the prevention of necrotizing enterocolitis, retinopathy, and bronchopulmonary dysplasia of premature infants (5). Although some properties may be reduced with longer refrigerated storage, this does not diminish the overall superiority of breast milk over formula, as formula does not contain these protective properties or many of the other benefits of breast milk.

Participant circumstances (e.g., adequate refrigeration, safe water, heat source), the health of the infant and health care provider directions need to be considered when recommending the length of time breast milk should be stored. If the breastfeeding mother uses a breast pump, it is essential for her to fully understand the importance of and the specific manufacturer's instructions for cleaning the breast pump. Improper cleaning of breast pumps and pump parts can increase the risk of expressed breast milk contamination (58).

Formula

Formula must be properly prepared in a sanitary manner to be safe for consumption. Furthermore, prepared infant formula is a perishable food, and must be handled and stored properly in order to be safe for consumption (4, 10). Most babies who are hospitalized for vomiting and diarrhea are bottle fed. This has often been attributed to the improper handling of formula rather than sensitivities to the formula. In rare cases, the contaminated powdered formulas may cause infections in preterm or immune compromised infants. To reduce the risk of infection in infants it is important that formulas be carefully prepared and handled. All formula should be prepared according to the manufacturer's instruction on the label, or those given by the health care provider.

Manufacturers' instructions vary, depending on the product, in the length of time it is considered safe to store prepared infant formula without refrigeration before bacterial growth accelerates to an extent that the infant is placed at risk (1). Published guidelines on the handling and storage of infant formula indicate that it is unsafe to use prepared formula which (1):

 Has been held at room temperature longer than 1 hour or longer than recommended by the manufacturer

- Has been held in the refrigerator longer than the safe storage time indicated by the manufacturer
- Remains in a bottle one hour after the start of feeding
- Remains in a bottle from an earlier feeding
- Is fed using improperly cleaned baby bottles

411.10 Feeding dietary supplements with potentially harmful consequences.

An infant consuming inappropriate or excessive amounts of single or multivitamin or mineral or herbal remedy not prescribed by a physician is at risk for a variety of adverse effects including harmful nutrient interactions, toxicity, and teratogenicity (1, 60). While some herbal teas may be safe, some have undesirable effects, particularly on infants who are fed herbal teas or who receive breast milk from mothers who have ingested herbal teas (61). Examples of teas with potentially harmful effects to infants and children include: licorice, comfrey leaves, sassafras, senna, buckhorn bark, cinnamon, wormwood, woodruff, valerian, foxglove, pokeroot or pokeweed, periwinkle, nutmeg, catnip, hydrangea, juniper, Mormon tea, thorn apple, vohimbe bark, lobelia, oleander, Maté, kola nut or gotu cola, and chamomile (61-63). Like drugs, herbal or botanical preparations have chemical and biological activity, may have side effects, and may interact with certain medications--these interactions can cause problems and can even be dangerous (64). Botanical supplements are not necessarily safe because the safety of a botanical depends on many things, such as its chemical makeup, how it works in the body, how it is prepared, and the dose used (64).

411.11 Routinely not providing dietary supplements recognized as essential by national public health policy when an infant's diet alone cannot meet nutrient requirements.

Depending on an infant's specific needs and environmental circumstances, certain dietary supplements may be recommended by the infant's health care provider to ensure health. For example, fluoride supplements may be of benefit in reducing dental decay for children living in fluoride-deficient areas (1, 65).

To prevent rickets and vitamin D deficiency in healthy infants and children, the AA P recommends a supplement of 400 IU per day for the following (5, 66).

- All breastfed and partially breastfed infants unless they are weaned to at least 1 liter (or 1 quart) per day of vitamin D-fortified formula.
- All non-breastfed infants who are ingesting less than 1 liter (or 1 quart) per day of vitamin D-fortified formula.

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